

# SRS-Z1000/Z1000PC

## SERVICE MANUAL

**Ver 1.2 1999.05**

With SUPPLEMENT  
(9-923-352-81)



*US Model  
Canadian Model*

*SRS-Z1000*

*AEP Model*

*UK Model*

*E Model*

*SRS-Z1000/Z1000PC*

## SPECIFICATIONS

### Amplifier section

Power output 7.5 W + 7.5 W  
Input impedance 4.7 kilohms (at 1 kHz)  
Input Stereo mini jack × 2 (INPUT 1, 2)

### Speaker section

System Full-range, bass reflex type  
Speaker unit Magnetically shielded ø65 mm  
(2 5/8 inch)  
Nominal Impedance 8 ohms  
Rated input power 7.5 W

### General

Power requirement DC IN 15 V jack accepts the supplied Sony AC power adaptor (left speaker only)  
Dimensions Approx. 95 × 175 × 160 mm (3 3/4 × 7 × 6 3/8 in.) (w/h/d) incl. projecting parts and controls  
Mass Approx. 1.6 kg ea.  
Supplied accessories AC power adaptor (1)  
Connecting cord (stereo miniplug ↔ stereo miniplug) (1)  
Optional accessories Plug adaptor PC-236HG  
Connecting cord RK-G138HG

Design and specifications are subject to change without notice.

The CE mark on the unit is valid only for products marketed in the European Union.

ACTIVE SPEAKER SYSTEM



**SONY®**

## SECTION 1 GENERAL

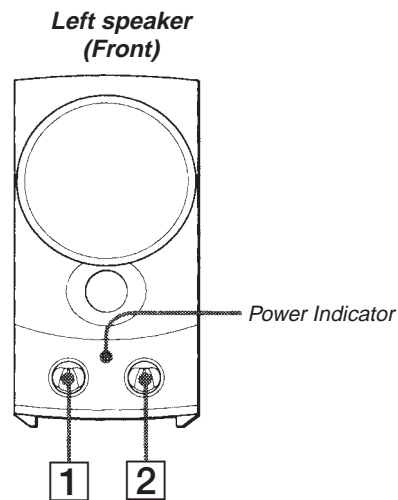
This section is extracted  
from instruction manual.

The Sony SRS-Z1000/Z1000PC is a compact-size speaker system with a built-in power amplifier. This system can be connected to a Discman, WALKMAN\* headphone stereo, MD station, etc.

- Newly developed  $\Sigma$ -type magnetic circuit reproduces powerful bass that you cannot imagine from its appearance.
- High-grade aluminum enclosure.

- Power output of 7.5 W + 7.5 W
- MEGA BASS and IBB (Intelligent Bass Boost) circuit enables you to obtain powerful bass regardless of the sound volume.

\* WALKMAN is a registered trademark of Sony Corporation.

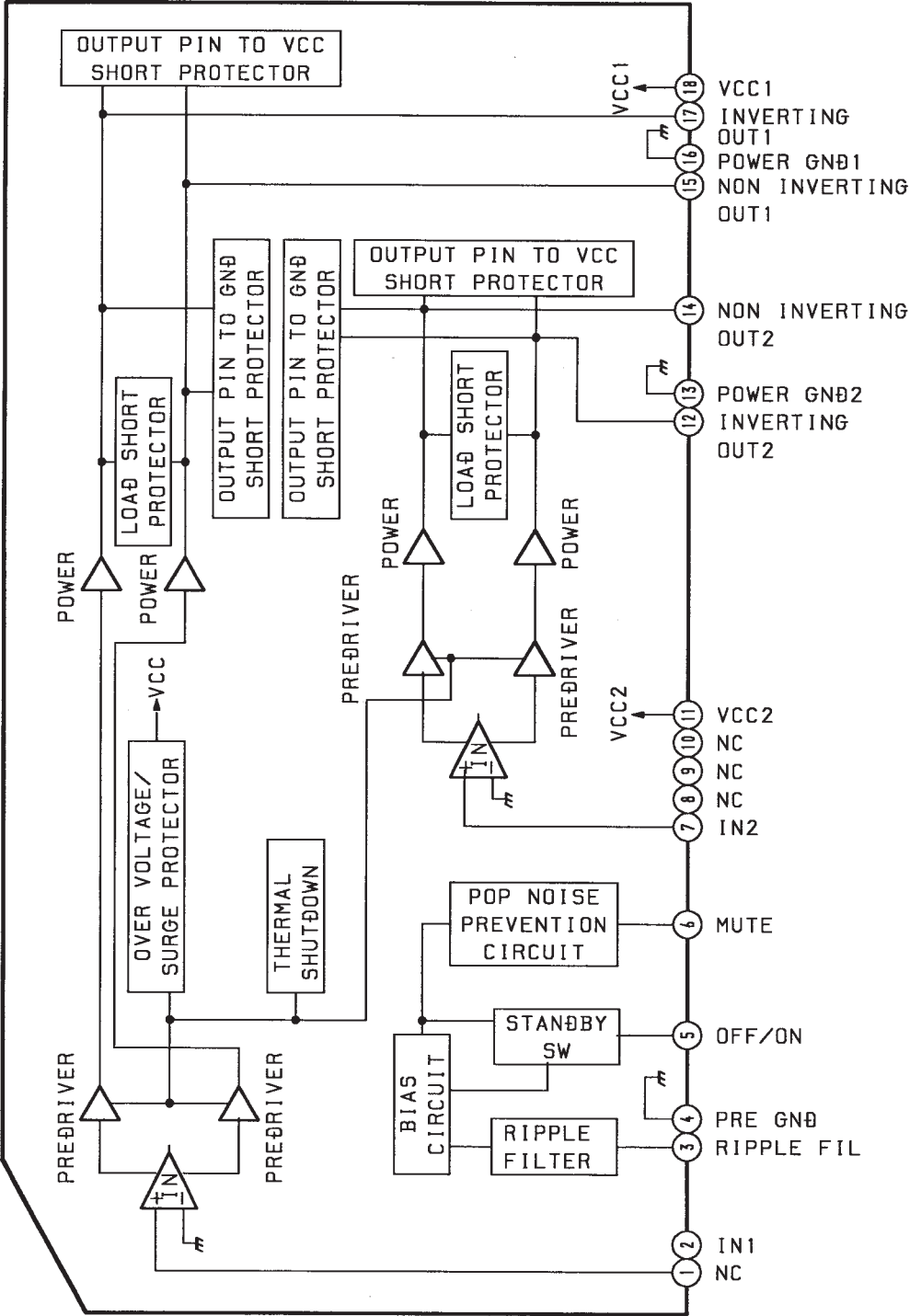


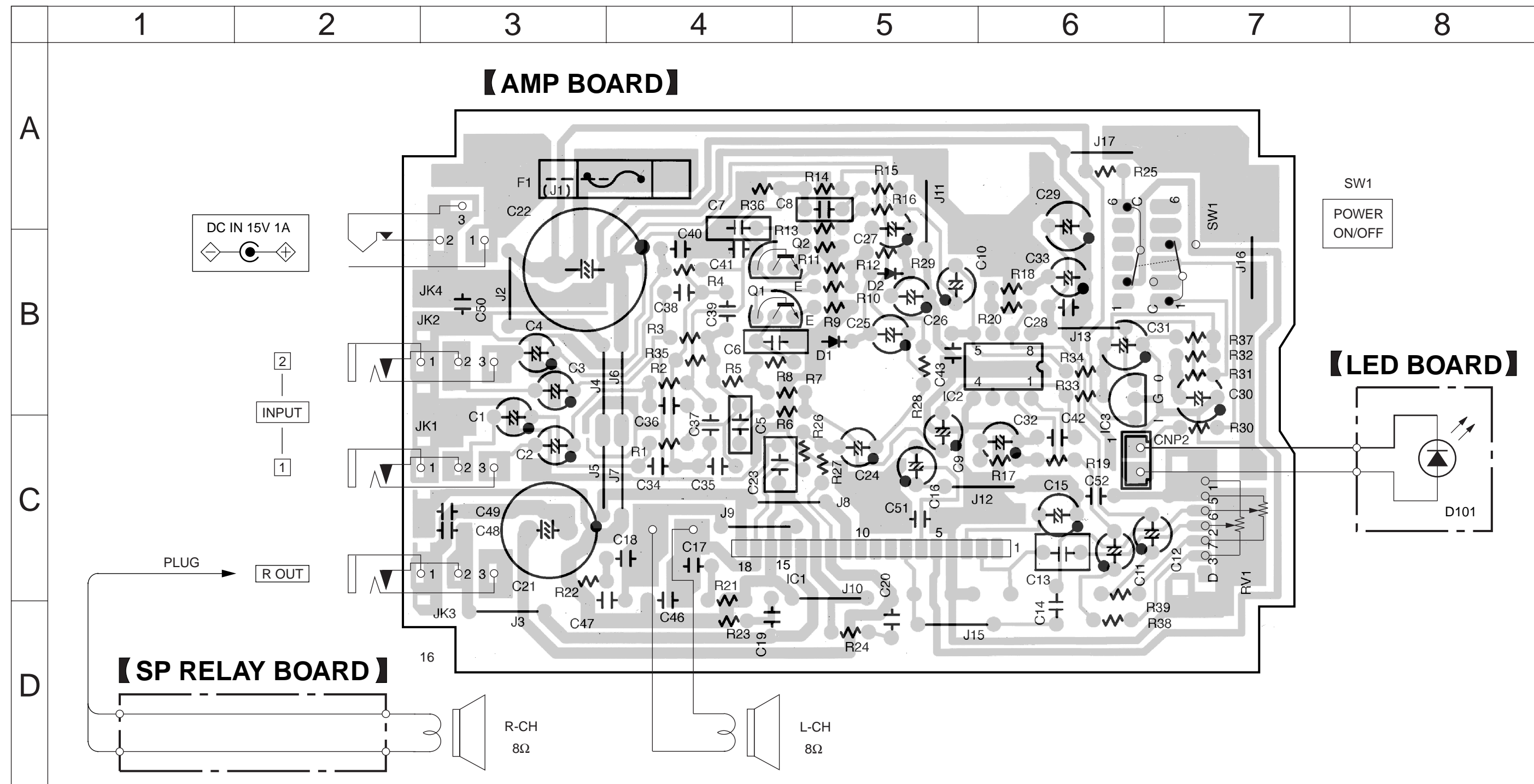
- 1 Turn the POWER switch to turn on the system.**  
The POWER indicator lights up.
- 2 Adjust the volume with the VOLUME control.**

SECTION 2  
DIAGRAMS

2-1. IC BLOCK DIAGRAM

IC 1 LA4705NA





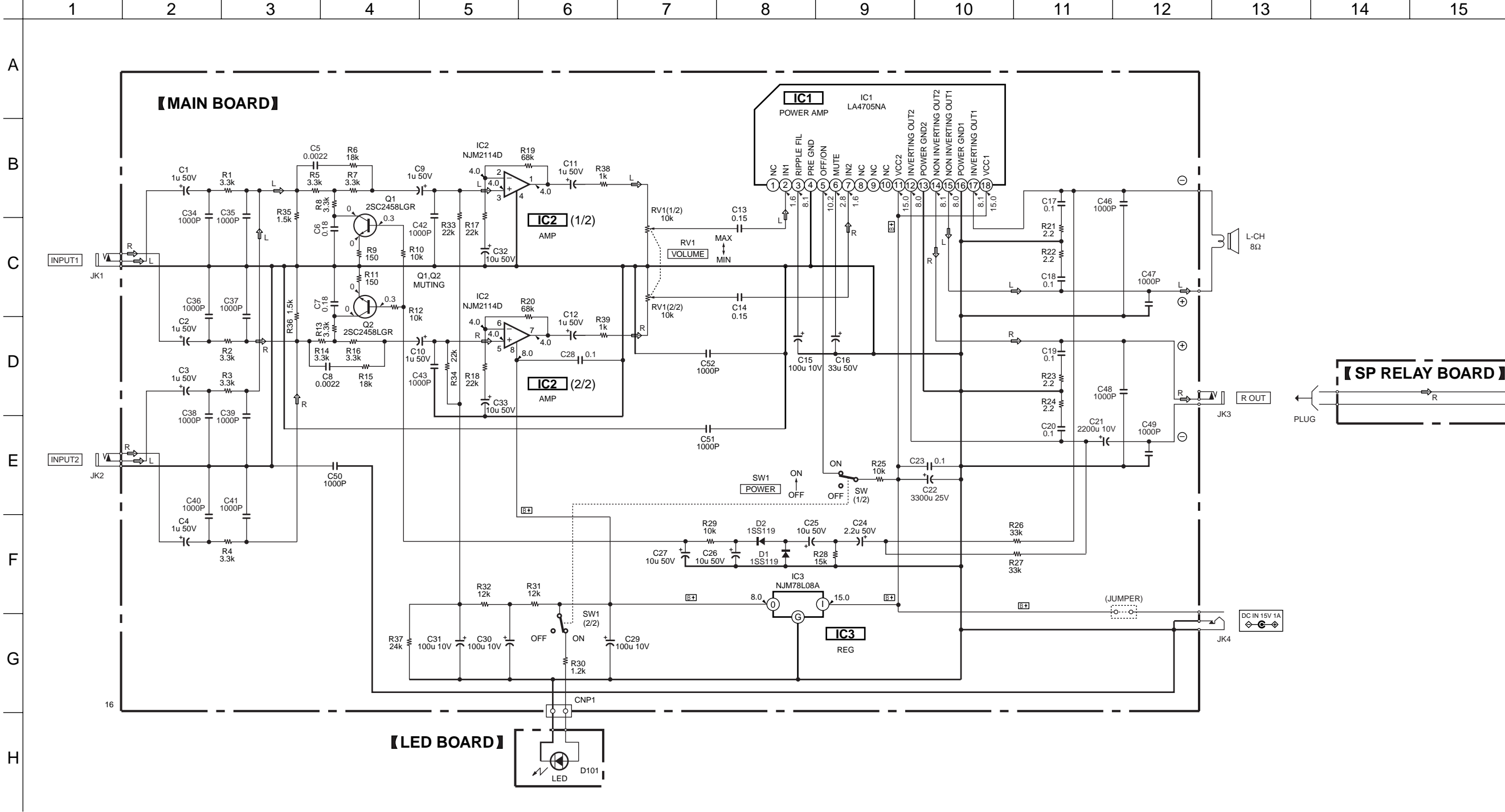
• Semiconductor Location

Ref. No.	Location
D1	B-5
D2	B-5
D101	C-8
IC1	C-5
IC2	B-6
IC3	B-6
Q1	B-4
Q2	B-4

**Note on Printed Wiring Board:**

- — : parts extracted from the component side.
- : Pattern from the side which enables seeing.

2-3. SCHEMATIC DIAGRAM



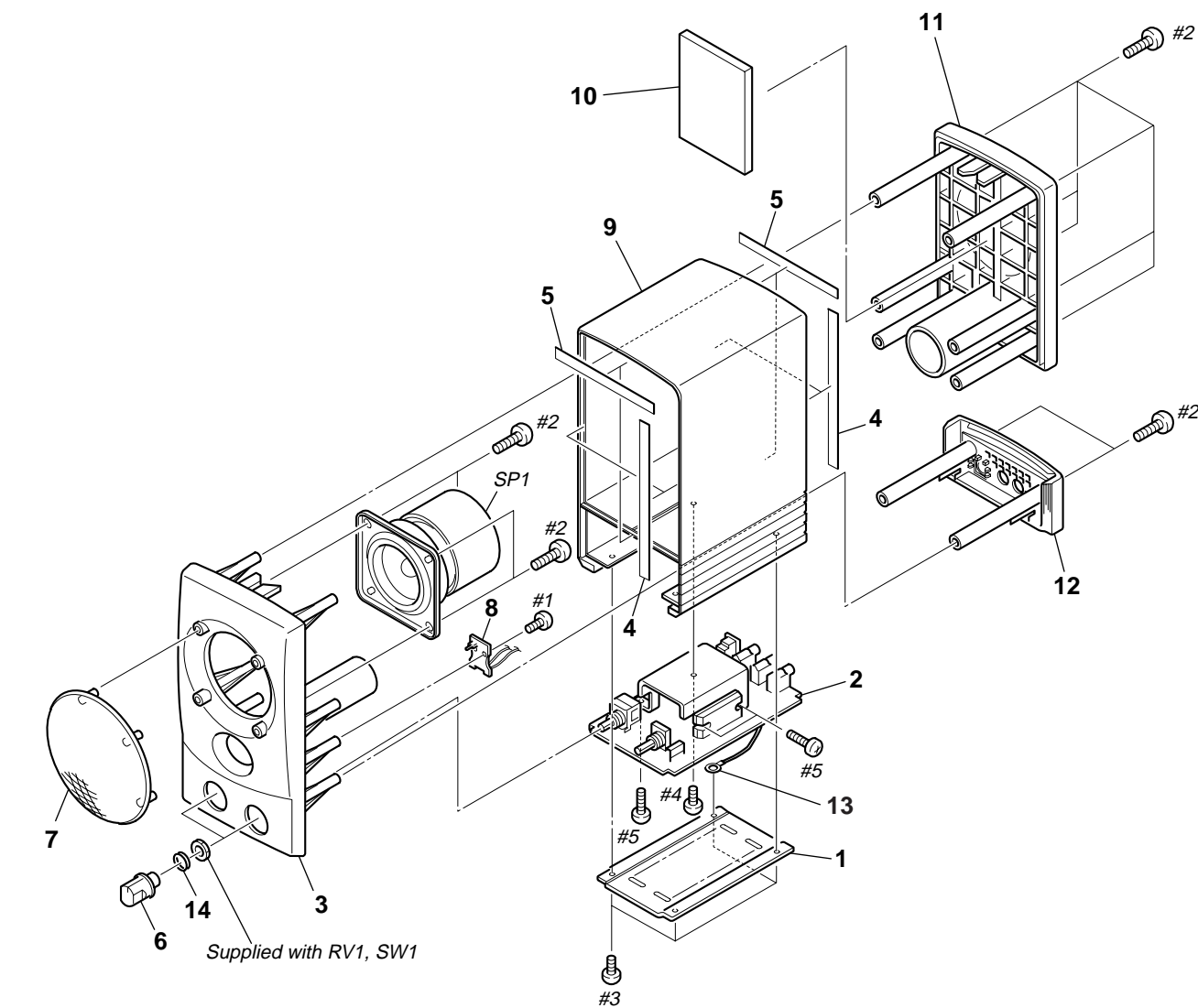
**Note on Schematic Diagram:**

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$ :  $\mu\text{pF}$  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
- : panel designation.
- B+ : B+ Line.
- Power voltage is dc 1.5 V and fed with regulated dc power supply from external power voltage jack.
- Voltages are taken with a VOM (Input impedance 10  $\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- : parts extracted from the component side.
- : Pattern from the side which enables seeing.
- Signal path.
- : AUDIO

SECTION 3  
EXPLODED VIEWS

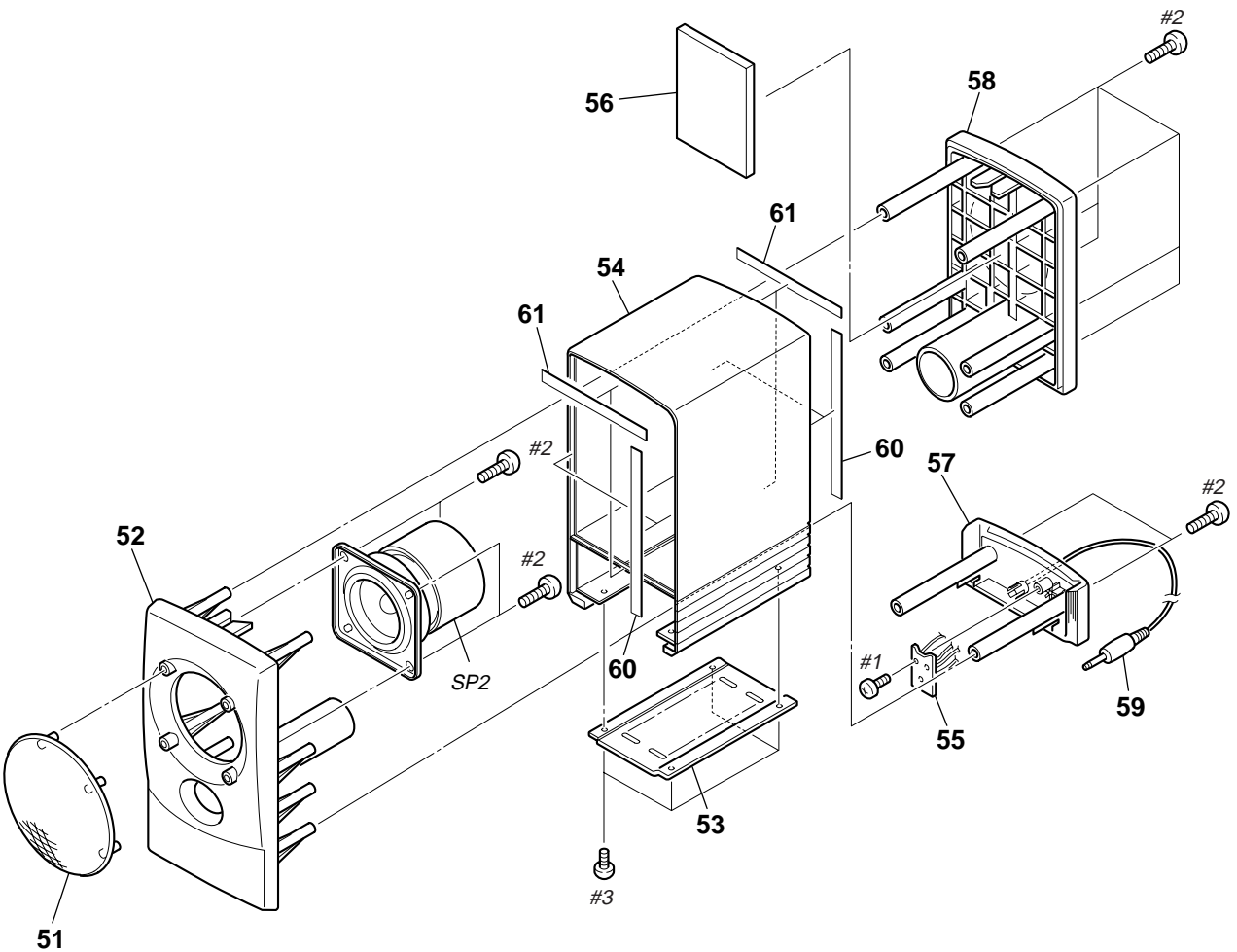
- NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
  - Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
  - The mechanical parts with no reference number in the exploded views are not supplied.
  - Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

3-1. CABINET (L) SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
* 1	4-997-076-01	COVER, UNDER		* 8	1-668-102-11	LED BOARD	
* 2	A-4542-484-A	AMPLIFIER BOARD, COMPLETE		9	4-997-072-01	CABINET	
3	4-997-073-01	PANEL (L), FRONT (Z1000)		* 10	4-997-278-01	ABSORBENT, ACOUSTIC	
3	4-997-073-11	PANEL (L), FRONT (Z1000PC)		11	4-997-074-01	PANEL, REAR (Z1000)	
4	4-997-083-01	PACKING (LARGE)		11	4-997-074-11	PANEL, REAR (Z1000PC)	
5	4-997-084-01	PACKING (SMALL)		12	4-997-075-01	PANEL (L), JACK (Z1000)	
6	4-997-077-01	KNOB (Z1000)		12	4-997-075-11	PANEL (L), JACK (Z1000PC)	
6	4-997-077-11	KNOB (Z1000PC)		13	7-623-508-01	LUG, 3	
7	X-4949-421-1	GRILLE ASSY (Z1000)		14	4-964-032-01	SPRING, COIL	
7	X-4949-524-1	GRILLE ASSY (Z1000PC)		SP1	1-505-803-11	SPEAKER(065F039)	

3-1. CABINET (R) SECTION



Ref. No.	Part No.	Description	Remarks	Ref. No.	Part No.	Description	Remarks
51	X-4949-421-1	GRILLE ASSY (Z1000)		57	4-997-082-01	PANEL (R), JACK (Z1000)	
51	X-4949-524-1	GRILLE ASSY (Z1000PC)		57	4-997-082-11	PANEL (R), JACK (Z1000PC)	
52	4-997-081-01	PANEL (R), FRONT (Z1000)		58	4-997-074-01	PANEL, REAR (Z1000)	
52	4-997-081-11	PANEL (R), FRONT (Z1000PC)		58	4-997-074-11	PANEL, REAR (Z1000PC)	
* 53	4-997-076-01	COVER, UNDER		59	1-775-692-11	CORD (WITH PLUG) (R) (Z1000)	
54	4-997-072-01	CABINET		59	1-775-692-21	CORD (WITH PLUG) (R) (Z1000PC)	
* 55	1-668-103-11	RELAY BOARD		60	4-997-083-01	PACKING (LARGE)	
* 56	4-997-278-01	ABSORBENT, ACOUSTIC		61	4-997-084-01	PACKING (SMALL)	
				SP2	1-505-803-11	SPEAKER(065F039)	

## SECTION 4 ELECTRICAL PARTS LIST

### AMPLIFIER

#### NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Abbreviation  
CND : Canadian  
SP : Singapore

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “\*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:  
uF:  $\mu$ F
- RESISTORS  
All resistors are in ohms.  
METAL: metal-film resistor  
METAL OXIDE: Metal Oxide-film resistor  
F: nonflammable
- COILS  
uH:  $\mu$ H
- SEMICONDUCTORS  
In each case, u:  $\mu$ , for example:  
uA...:  $\mu$ A..., uPA...,  $\mu$ PA...,  
uPB...,  $\mu$ PB..., uPC...,  $\mu$ PC...,  
uPD...,  $\mu$ PD...

Ref. No.	Part No.	Description	Remarks			Ref. No.	Part No.	Description	Remarks		
*	A-4542-484-A	AMPLIFIER BOARD, COMPLETE *****				C41	1-162-294-31	CERAMIC	0.001uF	10%	50V
						C42	1-162-294-31	CERAMIC	0.001uF	10%	50V
						C43	1-162-294-31	CERAMIC	0.001uF	10%	50V
	7-685-647-79	SCREW +P 3X10 TYPE2 NON-SLIT				C46	1-162-294-31	CERAMIC	0.001uF	10%	50V
	7-685-873-09	SCREW +BVTT 3X10 (S)				C47	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CAPACITOR >				C48	1-162-294-31	CERAMIC	0.001uF	10%	50V
C1	1-124-903-11	ELECT	1uF	20%	50V	C49	1-162-294-31	CERAMIC	0.001uF	10%	50V
C2	1-124-903-11	ELECT	1uF	20%	50V	C50	1-162-294-31	CERAMIC	0.001uF	10%	50V
C3	1-124-903-11	ELECT	1uF	20%	50V	C51	1-162-294-31	CERAMIC	0.001uF	10%	50V
C4	1-124-903-11	ELECT	1uF	20%	50V	C52	1-162-294-31	CERAMIC	0.001uF	10%	50V
C5	1-106-351-00	MYLAR	2200PF	5%	200V			< CONNECTOR >			
C6	1-136-168-00	FILM	0.18uF	5%	50V	* CNP1	1-569-973-11	PIN, CONNECTOR (PC BOARD) 2P			
C7	1-136-168-00	FILM	0.18uF	5%	50V			< DIODE >			
C8	1-106-351-00	MYLAR	2200PF	5%	200V	D1	8-719-911-19	DIODE 1SS119			
C9	1-124-903-11	ELECT	1uF	20%	50V	D2	8-719-911-19	DIODE 1SS119			
C10	1-124-903-11	ELECT	1uF	20%	50V			< IC >			
C11	1-124-903-11	ELECT	1uF	20%	50V	IC1	8-759-333-16	IC LA4705NA			
C12	1-124-903-11	ELECT	1uF	20%	50V	IC2	8-759-712-02	IC NJM2114D			
C13	1-136-167-00	FILM	0.15uF	5%	50V	IC3	8-759-708-08	IC NJM78L08A			
C14	1-136-167-00	FILM	0.15uF	5%	50V			< JACK >			
C15	1-124-443-00	ELECT	100uF	20%	10V	JK1	1-566-822-21	JACK (INPUT1)			
C16	1-104-663-11	ELECT	33uF	20%	16V	JK2	1-566-822-21	JACK (INPUT2)			
C17	1-136-165-00	FILM	0.1uF	5%	50V	JK3	1-566-822-21	JACK (R OUT)			
C18	1-136-165-00	FILM	0.1uF	5%	50V	JK4	1-695-619-11	JACK, DC (DC IN 5V 1A)			
C19	1-136-165-00	FILM	0.1uF	5%	50V			< TRANSISTOR >			
C20	1-136-165-00	FILM	0.1uF	5%	50V	Q1	8-729-205-83	TRANSISTOR 2SC2458L-GR			
C21	1-126-927-11	ELECT	2200uF	20%	10V	Q2	8-729-205-83	TRANSISTOR 2SC2458L-GR			
C22	1-126-944-11	ELECT	3300uF	20%	25V			< RESISTOR >			
C23	1-136-165-00	FILM	0.1uF	5%	50V	R1	1-247-843-11	CARBON	3.3K	5%	1/4W
C24	1-126-961-11	ELECT	2.2uF	20%	50V	R2	1-247-843-11	CARBON	3.3K	5%	1/4W
C25	1-124-907-11	ELECT	10uF	20%	50V	R3	1-247-843-11	CARBON	3.3K	5%	1/4W
C26	1-124-907-11	ELECT	10uF	20%	50V	R4	1-247-843-11	CARBON	3.3K	5%	1/4W
C27	1-124-907-11	ELECT	10uF	20%	50V	R5	1-247-843-11	CARBON	3.3K	5%	1/4W
C28	1-136-165-00	FILM	0.1uF	5%	50V	R6	1-249-432-11	CARBON	18K	5%	1/4W
C29	1-124-443-00	ELECT	100uF	20%	10V	R7	1-247-843-11	CARBON	3.3K	5%	1/4W
C30	1-124-443-00	ELECT	100uF	20%	10V	R8	1-247-843-11	CARBON	3.3K	5%	1/4W
C31	1-124-443-00	ELECT	100uF	20%	10V	R9	1-249-407-11	CARBON	150	5%	1/4W F
C32	1-124-907-11	ELECT	10uF	20%	50V	R10	1-249-429-11	CARBON	10K	5%	1/4W
C33	1-124-907-11	ELECT	10uF	20%	50V						
C34	1-162-294-31	CERAMIC	0.001uF	10%	50V						
C35	1-162-294-31	CERAMIC	0.001uF	10%	50V						
C36	1-162-294-31	CERAMIC	0.001uF	10%	50V						
C37	1-162-294-31	CERAMIC	0.001uF	10%	50V						
C38	1-162-294-31	CERAMIC	0.001uF	10%	50V						
C39	1-162-294-31	CERAMIC	0.001uF	10%	50V						
C40	1-162-294-31	CERAMIC	0.001uF	10%	50V						



AMPLIFIER

LED

Ref. No.	Part No.	Description	Remarks
R11	1-249-407-11	CARBON 150 5%	1/4W F
R12	1-249-429-11	CARBON 10K 5%	1/4W
R13	1-247-843-11	CARBON 3.3K 5%	1/4W
R14	1-247-843-11	CARBON 3.3K 5%	1/4W
R15	1-249-432-11	CARBON 18K 5%	1/4W
R16	1-247-843-11	CARBON 3.3K 5%	1/4W
R17	1-247-863-91	CARBON 22K 5%	1/4W
R18	1-247-863-91	CARBON 22K 5%	1/4W
R19	1-249-439-11	CARBON 68K 5%	1/4W
R20	1-249-439-11	CARBON 68K 5%	1/4W
R21	1-249-385-11	CARBON 2.2 5%	1/6W F
R22	1-249-385-11	CARBON 2.2 5%	1/6W F
R23	1-249-385-11	CARBON 2.2 5%	1/6W F
R24	1-249-385-11	CARBON 2.2 5%	1/6W F
R25	1-249-429-11	CARBON 10K 5%	1/4W
R26	1-249-435-11	CARBON 33K 5%	1/4W
R27	1-249-435-11	CARBON 33K 5%	1/4W
R28	1-249-431-11	CARBON 15K 5%	1/4W
R29	1-249-429-11	CARBON 10K 5%	1/4W
R30	1-249-418-11	CARBON 1.2K 5%	1/4W F
R31	1-249-430-11	CARBON 12K 5%	1/4W
R32	1-249-430-11	CARBON 12K 5%	1/4W
R33	1-247-863-91	CARBON 22K 5%	1/4W
R34	1-247-863-91	CARBON 22K 5%	1/4W
R35	1-249-419-11	CARBON 1.5K 5%	1/4W F
R36	1-249-419-11	CARBON 1.5K 5%	1/4W F
R37	1-247-864-11	CARBON 24K 5%	1/4W
R38	1-249-417-11	CARBON 1K 5%	1/4W F
R39	1-249-417-11	CARBON 1K 5%	1/4W F
< VARIABLE RESISTOR >			
RV1	1-225-584-11	RES, VAR, CARBON 10K/10K (VOLUME)	
< SWITCH >			
SW1	1-771-302-11	SWITCH (POWER)	
*****			

Ref. No.	Part No.	Description	Remarks
*	1-668-102-11	LED BOARD *****	
< DIODE >			
D101	8-719-822-26	DIODE TLG226 *****	
MISCELLANEOUS *****			
59	1-775-692-11	CORD (WITH PLUG) (R) (Z1000)	
59	1-775-692-21	CORD (WITH PLUG) (R) (Z1000PC)	
SP1	1-505-803-11	SPEAKER(065F039)	
SP2	1-505-803-11	SPEAKER(065F039)	
*****			
ACCESSORIES & PACKING MATERIALS *****			
△	1-473-851-11	ADAPTOR, AC (AC-S1510)(Z1000: US,CND,E)	
△	1-473-852-11	ADAPTOR, AC (AC-S1510)(AEP,SP)	
△	1-473-853-11	ADAPTOR, AC (AC-S1510)(UK)	
	1-783-164-11	CORD, CONNECTION	
	3-861-605-21	MANUAL, INSTRUCTION(ENGLISH)(Z1000: US)	
	3-861-605-31	MANUAL, INSTRUCTION (ENGLISH/FRENCH/GERMAN/SPANISH) (Z1000: CND,AEP,UK,E,SP,Z1000PC)	
	3-861-605-41	MANUAL, INSTRUCTION (GERMAN/DUTCH/SWEDISH/ITALIAN)(AEP)	
	4-997-071-01	FOOT, RUBBER	
*****			
***** HARDWARE LIST *****			
#1	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#3	7-685-790-09	SCREW +PTT 2.6X4 (S)	
#4	7-685-871-09	SCREW +BVTT 3X6 (S)	
#5	7-685-873-09	SCREW +BVTT 3X10 (S)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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# SRS-Z1000/Z1000PC

SONY®

## SERVICE MANUAL

1999. 05

*US Model*  
*Canadian Model*  
SRS-Z1000

*AEP Model*  
*UK Model*  
*E Model*

SRS-Z1000/Z1000PC  
*Australian Model*  
SRS-Z1000PC

## SUPPLEMENT-1

File this supplement with the Service Manual.

Subject : SRS-Z1000PC: Australian model is added.

- SRS-Z1000PC: Difference of the Australian model from other models is AC adaptor only.  
Please refer to SRS-Z1000/Z1000PC service manual (9-923-352-11) previously issued for other information.

### • PART LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
△	1-475-756-11	ADAPTOR, AC (AC-S1510) (Z1000PC: Australian)

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.